

BEAM POWER AMPLIFIER

MINIATURE TYPE

GENERAL DATA							
Electrical:							
Heater, for Unipotential Cathode: Voltage	volts amp μμf μμf μμf						
Mechanical:							
Length, Base Seat to Bulb Top (Excluding Tip) 2"±3 Maximum Diameter	-3/8" 3/32" 3/4" 5 - 1/2						
Pin 1-Grid No.1 Pin 2-Grid No.3, Cathode Pin 6-Grid No.2	n. 2						
Pin 3 - Heater Pin 7 - Grid No							
AF POWER AMPLIFIER - Class A							
Maximum Ratings, Design-Center Values:							
PLATE VOLTAGE	volts volts watts watts						
Heater positive with respect to cathode . 90 max. N BULB TEMPERATURE (At hottest point	volts oc						
on bulb surface) 250 max.	٠.						
Typical Operation and Characteristics:							
Grid-No.2 Voltage 180 250 Grid-No.1 (Control-	volts volts						
	volts volts ma ma						
●: See next page.							

AUG.1, 1953

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA 1



BEAM POWER AMPLIFIER

· ·			
Zero-Signal Grid-No.2]
Current (Approx.) 3 MaxSignal Grid-No.2	4.5	ma	
Current (Approx.) 4	7	ma.	l
Plate Resistance (Approx.) 58000	52000	ohms	1
Transconductance 3700	4100	<i>μ</i> mhos:	
Load Resistance 5500	5000	ohms	-
Total Harmonic Distortion 8	8	per cent	•
MaxSignal Power Output 2.0	4.5	watts	
Maximum Circuit Values:			
Grid-No.1-Circuit Resistance:			ł
For fixed bias	0.1 max	 megohmi 	1
For cathode bias	0.5 max	. megohm	^
AF POWER AMPLIFIER - Class A	B	į	
Maximum Ratings, Design-Center Values:	•		
PLATE VOLTAGE	250 ma	x. volts	
GRID-No.2 (SCREEN) VOLTAGE	250 ma		
PLATE DISSIPATION	12 ma		
GRID-No.2 INPUT	2 ma		
	2 1116	ix. Walls	
PEAK HEATER-CATHODE VOLTAGE:	00	14	
Heater negative with respect to cathode .	90 ma		
Heater positive with respect to cathode .	90 ma	x. volts	
BULB TEMPERATURE (At hottest point	050	00	1
on bulb surface)	250 ma	ax. °C	
Typical Operation:			
Unless otherwise indicated, values ar	e for 2 t	ubes	
Plate Voltage	250	volts	
Grid-No.2 Voltage		volts	1
Grid-No.1 (Control-Grid) Voltage#		volts	
Peak AF Grid-No.1-to-Grid-No.1 Voltage	30	volts	,
Zero-Signal Plate Current	70	ma.	
		ma.	
Max.—Signal Plate Current			
Zero-Signal Grid-No.2 Current (Approx.)	5	ma	
MaxSignal Grid-No.2 Current (Approx.)	13	ma	
Plate Resistance (Approx. per tube)		ohms	_
Transconductance (Per tube)	3750	μ mhos	
Effective Load Resistance (Plate to plate) .	10000	ohms	
Total Harmonic Distortion		per cent	
Max.—Signal Power Output	10	watts	
High ambient temperature and shielding may nece	ssitate a	reduction in	
 High ambient temperature and shielding may nece operating dissipation. When tube shields are use paint the inside and outside surfaces of the tub 	d, it is a	dvisable to	
paint the inside and outside surfaces of the tub and to provide ventilation slots to reduce operat	e sniela a ina temper	ature.	-
and to profite toner action of one to reduce operate	Jompor		
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M	Maximum C	ircuit V	alues (Per Ti	ube: 4		,		
G	Grid-No.1	-Circuit	Resist	tance	:#				
	For fixe For catl			• • •	• •	• •		0.1 max. 0.5 max.	megohm megohm
•	The type of in the grare recom	of input c	oupling	used s Tran	hould sform	not er- o	introduc r imped	e too much ance-coupli	resistance ng devices
•								two tubes,	
	cateo max	imum valu	es per t	ude sh	10110	De ha	ived.		
	Curve	es shown	under	Type	6 V 6	also	abbly	to 12AQ5	
	04.00			1,70	0,0	 30	apply	10 12405	
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MAY 3, 1954